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Sustainable Use of the West's Water (Summer Conference, June 12-14)

1995

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6-12-1995

### AGENDA: Sustainable Use of the West's Water

University of Colorado Boulder. Natural Resources Law Center

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Natural Resources Law Center  
University of Colorado School of Law  
**Sustainable Use of the West's Water**  
Sixteenth Annual Conference  
June 12-14, 1995

**Monday, June 12**

- 8:00            **Registration and coffee**
- 8:30            **Welcome**
- 8:40            **Introduction to the Conference**  
                **David H. Getches**, Interim Director, Natural Resources Law Center
- 9:00            **Sustainability: Myth and Reality**  
                **Professor Kai Lee**, Center for Environmental Studies, Williams  
                College, Williamstown, Mass.
- 9:45            **Sustainable Use of Natural Resources: A Native American Perspective**  
                **Ted Strong**, Columbia River Inter-Tribal Fish Commission, Portland
- 10:30           **Break**
- 10:50           **Perspectives on Western Water Management from the International  
Sustainable Development Effort**  
                **Sandra Postel**, Global Water Policy Project, Cambridge, Mass.
- 11:35           **Is Sustainable Agriculture Possible in the Arid West? The Example of the  
Ogallala Aquifer**  
                **Professor John Opie**, Center of Technology Studies, New Jersey  
                Institute of Technology, Newark
- 12:20           **Lunch**, Kittredge Commons  
                **Molly Harriss Olson**, President's Council on Sustainable Development,  
                Washington, DC

**Monday Afternoon Session: Arizona's Oust for a Sustainable Water Supply**

- 1:45        **Politics, Aridity and Engineering**  
              **Michael J. Brophy**, Ryley, Carlock & Applewhite, Phoenix
- 2:30        **Agriculture's CAP Experience: Sustainability for Whom?**  
              **Professor Paul Wilson**, Department of Agricultural and Resource  
              Economics, University of Arizona, Tucson
- 3:15        **Break**
- 3:35        **New Problems and New Solutions**  
              **Herb Dishlip**, Arizona Department of Water Resources, Phoenix
- 4:10        **The Glen Canyon EIS Process**  
              **Rick Gold**, U.S. Bureau of Reclamation, Salt Lake City
- 4:45        **Discussion of Arizona Experience among Afternoon Speakers and Audience  
Participation**
- 5:15        **Recess for the day**
- 6:15        **Cookout** at Chautauqua Park, 9th and Baseline (picnic shelter behind  
Auditorium)

**Tuesday, June 13**

- 8:30        **Is Sustainable Use of the Columbia River Possible?**  
              **John Volkman**, Northwest Power Planning Council, Portland
- 9:15        **A Response to *Kansas v. Colorado*: Sustainable Use of the Arkansas River?**  
              **David L. Harrison**, Moses, Wittemyer, Harrison & Woodruff, Boulder
- 10:00       **Break**
- 10:20       **Speculating on the Denver Basin Aquifer**  
              **Charles B. White**, Brownstein, Hyatt, Farber & Strickland, Denver  
              **Robert E. Brogden**, Bishop-Brogden Associates, Inc., Lakewood, Colo.
- 11:05       **Restoring the Rio Grande**  
              **Professor Denise Fort**, University of New Mexico School of Law,  
              Albuquerque
- 11:50       **Lunch** (on your own)

1:45 **The Henry's Fork: Finding Mutual Interest in the Watershed**  
**Janice Brown**, Henry's Fork Foundation, Island Park, Idaho  
**Dale Swensen**, Fremont-Madison Irrigation District, St. Anthony, Idaho

3:00 **Break**

3:20 **What is Sustainable Water Use in the West?**  
**Professor Charles F. Wilkinson**, University of Colorado School of Law

## Panel of Day's Speakers: Comments and Reactions

5:00 **Reception** on the lawn, sponsored by Hydrosphere Resource Consultants of Boulder

**Wednesday, June 14**

8:30 **Conservation at the Zuni Pueblo: Lessons in Sustainability**  
**Jim Enote**, Zuni Conservation Project, Zuni, New Mexico

9:15 **Managing Reclamation Facilities for Ecosystem Benefits**  
Lawrence J. MacDonnell, Consultant, Boulder

10:00	Break
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10:20 **State Initiatives that Encourage Sustainable Water Use: A Panel**  
Moderator: **Craig Bell**, Western States Water Council, Midvale, Utah

**Montana:** **Matthew McKinney**, Montana Consensus Council,  
Helena

**New Mexico:** Lucy Moore, Western Network, Santa Fe, New Mexico

**Oregon:** Mary Lou Soscia, Oregon Watershed Project, Salem

**Washington:** **Ken Slattery**, Washington Department of Ecology,  
Olympia

12:00      **Lunch**, Kittredge Commons

## The Bay-Delta Accord: A Stride Toward Sustainability

**Assistant Secretary Elizabeth A. Rieke**, U.S. Department of the Interior, Washington, DC, and Director Designate, Natural Resources Law Center

1:45

**The Debate: Are Water Rights and Sustainable Water Use Compatible?**

**Professor Eric Freyfogle**, University of Illinois College of Law,  
Champaign

**Stuart Somach**, DeCuir & Somach, Sacramento

3:00

**End of Program**

## SUSTAINABLE USE OF THE WEST'S WATER

Sixteenth Annual Summer Conference  
sponsored by the  
Natural Resources Law Center  
University of Colorado School of Law

June 12-14, 1995

### CONFERENCE ORGANIZERS

**DAVID H. GETCHES** (A.B. Occidental College, 1964; J.D. University of Southern California, 1967) is Professor of Law at the University of Colorado School of Law, teaching environmental, water, public land, and Indian law. He is currently serving as Interim Director of the Natural Resources Law Center. He has published several books, including Searching Out the Headwaters: Change and Rediscovery in Western Water Policy, with Bates, MacDonnell, and Wilkinson (1993), Controlling Water Use: The Unfinished Business of Water Quality Control, with MacDonnell and Rice (1991), Water Law in a Nutshell (1990), and Water Resource Management, with Meyers, Tarlock and Corbridge (1993). He served as Executive Director of the Colorado Department of Natural Resources from 1983-86. He was the founding Executive Director of the Native American Rights Fund (NARF) in Boulder. He serves on the boards of the Grand Canyon Trust, the Land and Water Fund of the Rockies (LAW Fund), and the Rocky Mountain Mineral Law Foundation. He spent the academic year 1989-90 working in Costa Rica under a Ford Foundation grant, providing assistance to non-profit organizations dedicated to the pursuit of sustainable use of natural resources, and helping to establish CEDARENA, a center for natural resources and environmental law.

**LAWRENCE J. MacDONNELL** (B.A. 1966, University of Michigan; J.D. 1972, University of Denver, Ph.D. 1975, Colorado School of Mines) is a principal with Sustainability Initiatives in Boulder, Colorado, providing legal and consulting services for conservation-based development. From 1983-94 he directed the Natural Resources Law Center. During this time he taught courses in the law of water, public lands, oil and gas, and mining. While Center Director he served as principal investigator for 19 funded research projects with grants from seven different foundations and six different government agencies. He co-authored or co-edited five books, and numerous chapters and articles. As the Center's first director he developed its programs and activities and helped establish the Center as one of the leading sources of scholarship and education related to environmental and natural resources law and policy in the country. Previously, he was a research economist at the Denver Research Institute and an adjunct professor at the University of Denver Graduate School of Business Administration. He was also a course director and instructor for the Colorado Outward Bound School. He is a member of the National Academy of Sciences/National Research Council Committee on the Future of Irrigation, and recently served on the Western Regional Team of the Natural Resources Task Force for the President's Council on Sustainable Development.

**TERESA RICE** (B.A. University of Northern Colorado, '76; J.D. University of Colorado, '85) has been a Senior Staff Attorney, Natural Resources Law Center, University of Colorado School of Law, since 1988, and currently is Acting Associate Director. She was in private law practice with Baker & Hostetler in Denver from 1985-88. She has published articles on water resource protection strategies for federal lands and trends in state land management, among other publications. She is currently working on several natural resource management research projects. She is author of "Beyond Reserved Rights: Water Resource Protection for the Public Lands," and co-author of numerous Center publications, including "Water Banking in the West," "Agricultural to Urban Water Transfers in Colorado: An Assessment of the Issues and Options," and Controlling Water Use: the Unfinished Business of Water Quality Protection.

**CHARLES F. WILKINSON** (B.A. Denison University; LL.B. Stanford University) joined the faculty at the University of Colorado School of Law in June 1987. He was formerly Professor of Law at the University of Oregon School of Law and Visiting Professor of Law at Michigan and Minnesota. A former staff attorney with the Native American Rights Fund, his books include Land of Fire, Land of Conquest: The Story of the Colorado Plateau, forthcoming, 1995; Federal Public Land and Resources Law, 3rd ed. (1993) (with Coggins and Leshy); Cases and Materials on Federal Indian Law, 3rd ed. (1994) (with Getches and Williams); Land and Resource Planning in the National Forests (1987) (with Anderson); American Indians, Time and the Law - Native Societies in a Modern Constitutional Democracy (1987); The American West - a Narrative Bibliography and a Study in Regionalism (1989), The Eagle Bird - Mapping A New West (1992) and Crossing the Next Meridian - Land, Water and the Future of the West (1992). He has received teaching awards from students at Colorado, Michigan, and Oregon. He received the University of Oregon's Faculty Excellence Award in 1986 and the University of Colorado's Overall Faculty Excellence Award in 1988. The National Wildlife Federation awarded him its 1990 National conservation Achievement Award for outstanding contributions to the wise use and management of the nation's natural resources.

## **FACULTY**

**CRAIG BELL** graduated with honors from the University of Utah Law School in 1973, where he served as a member of the Board of Editors of the Utah Law Review. He joined the Western States Water Council in 1974 as Assistant Director, and has been involved in many activities concerning federal/state relations in water law. He has written several briefs which have been endorsed and filed by many of the western states before the United States Supreme Court in water rights litigation. On November 1, 1980, Craig was appointed as Executive Director of the Council where he supervises the staff work of analyzing and evaluating developments in a broad range of water policy issues affecting the sixteen states affiliated with the Council, and responding to those developments as directed by the Council's representatives.

**ROBERT E. BROGDEN** has degrees in geology and Civil Engineering, with emphasis in water resources engineering, from the University of Nebraska. He has over 25 years experience in the fields of ground water geology, water rights, and water resources. He has worked with the Conservation Survey Division of the University of Nebraska (the equivalent of the Nebraska Geological Survey), the South Dakota Geological Survey, and the U.S. Geological Survey. He has worked with two Denver-area consulting firms since 1972. He frequently speaks before CLE conferences, professional groups and organizations, Planning and County Commissioners, and others on topics such as the Denver Basin, water rights values, water rights in Colorado, stream aquifer relationships, and other topics.

**MICHAEL J. BROPHY**, a shareholder of Ryley, Carlock & Applewhite in Phoenix, represents irrigation districts, water companies, and developers in matters involving use of groundwater, surface water and Colorado River Water. He is the Arizona representative, Western States Water Council, and Chairman of their subcommittee on Reserved Water Rights. Publications include: "Some Practical Legal Considerations About Water Transfers," Arizona State University Law School Water Law Seminar (1985); and "Indian Water Rights Settlements," for seminar (1990). He has spoken frequently on water law issues, including recently on "The Effect of the Central Arizona Project on the Allocation of Colorado River Water," at the 1994 American Bar Association water law seminar in San Diego. He is a member of the ABA Natural Resources, Energy and Environmental Law Section; the Arizona Bar Association Environmental and Natural Resources Law Section; and the Rocky Mountain Mineral Law Foundation. His B.A. is from the University of Arizona, and J.D. from Arizona State University, where he was Editor-in-Chief, Arizona State Law Journal.

**JANICE BROWN** is the first Executive Director of the Henry's Fork Foundation, based full time in Island Park, Idaho, and has served in that capacity since October 1991. She holds a B.S. in Resource Recreation Management, Oregon State University, and has been involved in resource conservation her entire seventeen years in Eastern Idaho. Her experience in resource policy and planning includes serving as Governor Evans' Assistant for Natural Resources from 1985-86 and as a Greater Yellowstone Coalition board member for seven years. She also has been owner/operator of Lucky Dog Retreat, a small guest lodge in Island Park, since 1984. She is a primary co-facilitator of the Henry's Fork Watershed Council along with staff of the Fremont-Madison Irrigation District.

**HERB DISHLIP** (B.S. Civil Engineering, University of Iowa) is an Assistant Director for the Divisions of Surface Water and Groundwater Management for the Arizona Department of Water Resources. He has served in this capacity since August of 1985. As Assistant Director, he is responsible for overseeing the Department's role as administrator of the State's Groundwater and Surface Water Codes. This responsibility included the preparation and implementation of the water conservation programs required by the state water management plans. He also currently oversees Department staff involved in Colorado River issues, the Gila and Little Colorado River Adjudications, dam safety and floodplain management activities. His previous positions with the Department were as Assistant Deputy Director and as Pinal Active Management Area Director. Prior to coming to DWR in 1981, he worked for nine years for the U.S. Bureau of Reclamation in Arizona and Colorado.



**JAMES E. ENOTE** has been working in the resource development field professionally for over eighteen years and as a practitioner of land use his entire life. His work involves integration of native peoples traditional knowledge in environment and development strategies and promotion of native people's perspectives and traditional technologies in national and international policy. Mr. Enote has served as an advisor and consultant to governments and non-governmental organizations on five continents and with the United Nations, The World Conservation Union, International Development Research Center, and several universities in the United States and abroad. He is also a member of several boards dealing with native people's issues. Mr. Enote's principal responsibility at home is as the Department Head of the Zuni Tribe's Natural Resource Department and Project Leader of the Zuni Conservation Project.

**DENISE D. FORT** is the Director of the Water Resources Administration Program at the University of New Mexico and an associate professor at the University of New Mexico's School of Law. Her current research interests are in the areas of water pollution, groundwater allocation policies, and riparian habitat protection. She has taught public policy, natural resources and environmental law, and planning courses. Ms. Fort has extensive experience in environmental and natural resources law and policy. She has served as the Director of New Mexico's Environmental Improvement Division, as the head of a California environmental organization, and as counsel for several environmental organizations. Another area of experience and research has been governmental finance. She was the Secretary of New Mexico's Finance and Administration Department and a special assistant attorney general in the Taxation and Revenue Department.

**ERIC FREYFOGLE** is Professor of Law at the University of Illinois, where he teaches courses in property, natural resources law, real estate transactions, and legal history. Upon graduating from the University of Michigan Law School, he served as an Assistant to the Army General Counsel and practiced with a law firm in Indianapolis before entering law teaching in 1983. He is the author of more than a dozen law review pieces, as well as a recent book, Justice and the Earth (The Free Press, 1993). His popular writings have appeared in the New York Times, Chicago Sun-Times, Dissent, Wild Earth, and other publications. A native of central Illinois, he is a Director of the Illinois Environmental Council, President of the Sangamon Valley Conservancy, and past chair of the Sierra Club's Prairie Group.

**RICK L. GOLD**, a native of the Upper Snake River Valley in Idaho, has a B.S. ('68) and an M.S. ('70) in Civil Engineering-Water Resources, from Utah State University. He began his federal career with the Bureau of Reclamation in 1969 and has worked for Reclamation for 25 years in Utah, Colorado, Montana, and Washington, DC. He is a registered professional engineer in Colorado and Montana, with experience as a Regional Hydrologist, a Projects Manager, and a Regional Planning Officer. He is currently the Deputy Regional Director in Salt Lake City where his responsibilities include managing the planning, environmental, operation and maintenance, power, and Colorado River Studies functions of the region. He directly manages the activities surrounding the Glen Canyon Dam Environmental Studies and the associated Environmental Impact Statement.

**DAVID L. HARRISON** (B.S. Civil Engineering, Hydraulics, '68; J.D. '71, University of Colorado) is president and shareholder of the firm of Moses, Wittemyer, Harrison & Woodruff, specializing in water resource law, principally in the Rocky Mountain west. He has represented municipalities, agricultural users and industrial users in water resource problem solving since 1971. He has focused extensively on problems of instream flow protection working with The Nature Conservancy and with private clients concerning water rights for instream flow under the western system of appropriative water rights. He was appointed by the governor to the Colorado Water Conservation Board in 1989. He was on the Board of The Nature Conservancy from 1980-90, and continues to consult with the Conservancy on strategic planning for many of the Conservancy's conservation programs.

**KAI LEE** is professor of environmental studies at Williams College, and director of the Center for Environmental Studies, the oldest such program in the U.S. offering a concentration in environmental studies. After studying experimental physics (A.B. Columbia, '66; Ph.D. Princeton, '71), Lee was awarded a research training fellowship by the Social Science Research Council to study social sciences at the University of California, Berkeley. He has continued to teach and study the relationship between technological change and democratic governance. From 1973-90 he taught political science and environmental studies at the University of Washington. The ideas in his book Compass and Gyroscope: Integrating Science and Politics for the Environment (1993) have been influential in planning "adaptive management areas" in the forest lands of the Pacific Northwest, as well as in the management of Pacific salmon. From 1983-87 he represented the state of Washington on the Northwest Power Planning Council. He has also taught at Kyoto University, Stanford, Berkeley, and at the Western Behavioral Sciences Institute.

**MATTHEW MCKINNEY** (Ph.D., Natural Resources, University of Michigan; M.A., Philosophy, and B.A., Humanities, Colorado State University) is Director of the Montana Consensus Council, which provides an ongoing forum to supplement existing institutions for shaping and implementing public policy. He has helped Montanans with diverse viewpoints build agreement on administrative rules governing recreational access to state school trust lands; legislation to protect instream flows; suggested amendments to the federal Endangered Species Act; and processes for developing local land use plans. He has worked in various capacities as a planner, policy analyst, and/or consultant for the Montana Department of Natural Resources and Conservation, the National Park Service, the U.S. Fish and Wildlife Service, the U.S. Forest Service, the Colorado State Forest Service, and several local governments, private businesses, and interest groups throughout the West. He has taught at Carroll College, Montana State University, and the University of Montana; has published numerous articles on natural resource policy and conflict management; and is a member of the Society of Professionals in Dispute Resolution.

**LUCY MOORE** is a partner with Western Network, a Santa Fe-based mediation/facilitation firm specializing in natural resource and cross-cultural disputes. She has handled dozens of multi-party, multi-issue disputes in the last twelve years, involving air and water quality, solid and radioactive waste, forest plans, and more. A board member of IAP3, her "educational" history includes a degree from Harvard University, eight years living on the Navajo Reservation, and life with two teenage sons.

**MOLLY HARRISS OLSON** (B.A., Environmental Studies and Natural Resource Economics, University of California, Bates Resident Scholar, Yale University, M.A. Environmental Policy, School of Forestry and Environmental Studies, Yale University) is the Executive Director of the President's Council on Sustainable Development. Previously she was Special Assistant to the Director of the BLM at the U.S. Department of Interior with responsibility for ecosystem management; and the Deputy National Coordinator of Environmentalists for Clinton-Gore. She also worked with the Environmental Minister of Australia where she conducted a major review of that government's funding for the environment. She was a Scientific Research Diver with the Australian Institute of Marine Science, and a delegate at major international meetings on the environment. She has lectured and written on environmental issues and has been Managing Editor and member of the Editorial Board of Wildlife Australia magazine. In January 1995, she was selected as a member of the World Economic Forum's Global Leaders for Tomorrow program, made up of individuals from throughout the world, born after 1950, who have distinguished themselves as recognized leaders in the world community.

**JOHN OPIE** (Ph.D., University of Chicago) is Distinguished Professor and Director of the Graduate Program in Environmental Policy Studies at New Jersey Institute of Technology. In 1976 he was founding editor of the international quarterly, Environmental Review, later titled Environmental History Review. He was also founding president of the American Society for Environmental History. His latest book is Ogallala: Water for a Dry Land, a policy history of groundwater consumption under Great Plains intensive farming, dealing particularly with agriculture sustainability under pressures of human need and climate change. Ogallala was co-winner of the George Perkins Marsh book prize in 1994 and will be dramatized in spring 1996 by the University of Kansas Theater. Opie is currently under contract with Harcourt Brace for an environmental history textbook tentatively titled, Environmental America: A History, scheduled for publication in 1996. In spring 1995, he was a panelist and evaluator for the President's Council on Sustainable Development, in conjunction with the American Association of Engineering Societies (AAES), the White House Office of Science and Technology Research (OSTR), and the consulting firm, Second Nature, in Massachusetts.

**SANDRA POSTEL** is Director of the Global Water Policy Project in Cambridge, Massachusetts, which promotes the protection and sustainable use of the world's water resources through research, education, and outreach. She is also Adjunct Professor of International Environmental Policy at Tufts University and Visiting Research Fellow at Harvard University's Kennedy School of Government. From 1988 through April 1994, she was Vice President for Research at the Worldwatch Institute, a private non-profit research organization with which she remains affiliated as Senior Fellow.

**BETSY RIEKE**, who has been Assistant Secretary for Water & Science in the Department of the Interior since May 1993, is the Director Designate for the Natural Resources Law Center, effective August 1. Before going to Washington she served in the Arizona Department of Water Resources, as Director from 1991-93, and earlier as Chief Legal Counsel. She also practiced with the law firm of Jennings, Strouss & Salmon in Phoenix, specializing in water law and administrative and legislative matters. For over a decade she worked on implementing Arizona's Groundwater Code, passed in 1980. She has recently been credited with helping water interests in California reach a truce in battles over the Sacramento-San Joaquin Delta. Rieke graduated from Oberlin College (1965) and received her law degree with highest distinction from the University of Arizona (1981).

**KENNETH SLATTERY** is a graduate of Western Washington University. He has worked in the Water Resources Program of the Department of Ecology for the past eighteen years. He has worked on numerous projects addressing water allocation issues, instream flows, and water conservation and has drafted successful state and federal legislation on these topics.

**STUART L. SOMACH** is an Attorney-Shareholder with the Sacramento law firm of De Cuir & Somach. He is former attorney with the United States Department of the Interior. He also served as an Assistant United States Attorney and Senior Trial Attorney, United States Department of Justice. He entered private practice in 1984, and now specializes in water rights and water quality law, natural resource and environmental law, as well as litigation in federal and state courts. He has taught water rights courses and is an Adjunct Professor of Law at the University of the Pacific McGeorge School of Law. He has authored numerous law review articles in the area of water rights, and is the former Chairman of the American Bar Association's Committee on Water Resources Law.

**MARY LOU SOSCIA** has been since 1993 Program Manager of the Oregon Watershed Health Program, with \$10 million in lottery funding to encourage government and citizens to collaborate, focusing on two basins, the Grande Ronde and S. Coast/Rogue. Previously she worked with the Columbia River Inter-Tribal Fish Commission (1993); and with the U.S. EPA in Washington, DC (1985-93) in the Office of Water, responsible for coordination of all communication and outreach activities. She has a B.A. from Virginia Polytechnic Institute and State University ('75) and an M.A. in Geography from the University of Maryland ('82). She is a member of the Western Regional Team of the President's Council on Sustainable Development.

**TED STRONG** has been executive director of the Columbia River Inter-Tribal Fish Commission (CRITFC) since 1989. As head of CRITFC, he is a persuasive advocate for the tribes' ecosystem management philosophies and goals which combine contemporary technology and business acumen with the traditional natural values of the Columbia River Indian people. As executive director, Mr. Strong implements the consensus policies of CRITFC's parent tribes, the Warm Springs, Yakima, Umatilla, and Nez Perce tribes who founded CRITFC in 1977 as their technical and coordinating agency. In his executive capacity, he was a tribal representative to the Salmon Summit convened by Senator Mark Hatfield in 1990. In 1993, he was given the "Conservationist of the Year" award by organizers of the Salmon Festival, an annual event held near Portland, Oregon.

**DALE L. SWENSEN** is the Executive Director of the Fremont-Madison Irrigation District, and has served in this capacity since 1978. He was born and raised in St. Anthony, Idaho. Mr. Swenson is married to Judeen and they have six children. He is a graduate of Brigham Young University, with a B.S. in animal science. He is also co-facilitator of Henry's Fork Watershed Council.

**JOHN M. VOLKMAN** is General Counsel for the Northwest Power Planning Council. The Council is a policy planning agency for Northwest energy conservation and development and Columbia River Basin fish and wildlife recovery. In 1990, he was a Visiting Scholar at the Western Governors' Association, where he wrote on sustainable development issues in the Northwest. He graduated from Colorado College in 1969 and the University of Colorado School of Law in 1973.

**CHARLES B. (BARNEY) WHITE** is a shareholder in the Denver firm of Brownstein Hyatt Farber & Strickland, with a practice emphasizing water rights, public land law, and real property litigation. He has been responsible for a broad range of water matters throughout Colorado, including new appropriations, plans for augmentation, and exchanges for municipal, industrial, and agricultural uses. Representative projects have included: litigation and negotiation of issues concerning a water lease between the Colorado State Board of Land Commissioners and the Rangeview Metropolitan District; and negotiation of federal legislation concerning wilderness reserved water rights and wild and scenic river designation. His B.A. is from Stanford, and J.D. from Stanford Law. He has spoken on various water and public lands topics, including nontributary ground water development in the San Luis Valley (Natural Resources Law Center, 1992); Forest Service and Corps of Engineers permitting of ski areas (Colorado Ski Country USA, 1993); and state and local regulation of federal lands (Rocky Mountain Land Use Institute, 1994).

**PAUL N. WILSON** is Professor in the Department of Agriculture and Resource Economics at the University of Arizona. His teaching and research programs focus on managerial economics and finance. Recent work has emphasized the adoption of water-conserving irrigation technologies and the economics of irrigation districts. He served on an interdisciplinary, multi-agency team that recently evaluated the operations of the Maricopa-Sanfield Irrigation and Drainage District in central Arizona. In 1992, he prepared a report for Governor Fife Symington and the Arizona Department of Water Resources entitled An Economic Assessment of Central Arizona Project Agriculture.